

1 **IN THE SPECIFICATION:**

2 Please replace the second paragraph on page 8 with the following amended paragraph:

3 As the name suggests, the purpose of the application server is to implement all of the
4 customized logic that defines the application. Since creating that logic is the job of the
5 provider, an application server may come with only limited and generic predefined
6 functionality. Apache JServ includes software components, written in the C and Java
7 languages, which communicate using a protocol such as Apache JServe Protocol
8 (AJP). Because it is a Java application, Apache JServ runs inside a Java Virtual
9 Machine (JVM). *The Java Programming Language*, third edition (2000) and *Java In a*
10 *Nutshell* (1999) ~~and <http://java.sun.com>~~ describe Java and are incorporated by
11 reference. A person of ordinary skill will know from review of this specification how to
12 implement servlets, JSPs, Java objects, and other components that comprise the
13 applications.

14
15 Please replace the third paragraph on page 8 carrying over to the first paragraph on
16 page 9 with the following amended paragraph:

17 A Java program that accepts an HTTP request and produces an HTTP response is
18 called a Java servlet or simply a servlet. *Professional Java Server Programming* (1999)
19 and Hall, *Core Servlets and JavaServer Pages* (2000) describing server side
20 programming including the creation of servlets, Java Server Pages, Java Beans, and
21 other server-side technologies is ~~are~~ incorporated by reference. An implementation of
22 Java Servlet and JavaServer Pages technologies can be downloaded from
23 ~~<http://java.sun.com/products/jsp/tomcat/>~~ the Sun web site. The invention can also use a
24 servlet named GNU JSP to implement the JavaServer Page standard. A JavaServer
25 Page (JSP) combines a markup language, such as HTML or XML, with Java code to
26 produce a dynamic Web page. Unless otherwise noted, where reference is made to the
27 application server performing an action related to dynamic pages that action can be
28 carried out by a Java servlet.

1 Please replace the first full paragraph on page 12 with the following amended
2 paragraph:

3 A servlet will assign a value to the cookie in the following manner. First, it will review the
4 data used to generate all of the pages in the page class associated with the cookie. A
5 page class is defined as a group of pages that all need to be updated under the same
6 conditions because they all depend on the same data. The cookie value is set to the
7 most recent modification time for any data used by the page class. Pages that depend
8 on slightly different sets of data may be combined into the same page class. In that
9 case, the data for the page class is the union of the data sets for the pages. Taking the
10 union of the data sets will cause the caching to be less efficient— in some cases an up-
11 to-date page will be re-requested from the server— but it will reduce the number of
12 cache control cookies that are required.